

L 6528-66 EWT(d)/FSS-2
ACC NR: AP5023035

SOURCE CODE: UR/0107/65/000/008/0003/0004

AUTHOR: Kuniskiy, A. (Engr.)

ORG: none

TITLE: Television and microworld

SOURCE: Radio, no. 8, 1965, 3-4

TOPIC TAGS: television, biologic research facility

ABSTRACT: Potentialities of tv methods developed for studying biological micro-preparations are briefly described. As staining the living specimens has often damaged or killed them, the electronic methods of changing contrast, brigtness, and emphasizing some features of the picture prove to be very beneficial. Adjusting the shape of the channel amplitude characteristic and providing gamma correctors are noted. The scanning microbeam system with a photomultiplier and a kinescope is mentioned; low doses of radiant energy received by the specimens in this system are noted. Selective light absorption by organic compounds can be studied by (color) television. A tv microscope combined with a computer permits counting

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particles (such as erythrocytes), analyzing their distributions, etc. Measuring linear dimensions of various parts of the specimen becomes also possible.
Orig. art. has: 2 figures.

SUB CODE: EC, LS/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 2/2

ACC NR: AP6030146

SOURCE CODE: UR/0120/66/000/004/0148/0153

AUTHORS: Kozlov, B. L.; Kaminir, G. I.; Kuniskiy, A. S.

ORG: Institute for Biophysics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN
SSSR)TITLE: Television microscope for investigating biological structures in the region
of 248 - 700 nanometers

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 148-153

TOPIC TAGS: microscope, tv photography, tv camera, tv equipment

ABSTRACT: A television microscope for investigating *in vivo* biological structures by means of white or monochromatic light in the region of 248--700 nanometers was developed. The instrument has a magnification of 2000, a scanning area of 0.2--0.4 micrometers, and degree of detail corresponding to 256 lines. The light source used in the instrument is described by L. S. Agroskin (Biofizika, 1957, 2, 4, 518). Block diagrams of the various components of the instrument, viz.: synchrogenerator, line scanning, picture scanning, etc are presented. Two photographs taken with the instrument are also included (see Fig. 1). It is concluded that this apparatus affords a simultaneous determination of the fraction of light absorbed by the specimen

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UDC: 621.397.9:578

ACC NR: AP6030146



Fig. 1. Chicken
red blood corpuscles
in white light

and the linear size of the latter. Orig. art. has: 7 graphs.

SUB CODE: 14, 09, 06, 20/ SUBM DATE: 30Jun65/ ORIG REF: 002/ OTH REF: 003

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4

KUNISZ, MARIA D.

Jagellonian Univ., Krakow, Poland

Poland

CA: 47:11992

"Graphic method of eliminating the background in photographic spectrophotometry."
Acta Phys. Polon. 12, 3-7 (1953) (in English).

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4"

POLAND/Optics - Spectroscopy.

K

Abs Jour : Ref Zhur Fizika, No 12, 1959, 28501
Author : Kudisz, Maria D.
Inst :
Title : Estimate of the Intensities of Spectral Lines of Certain Doublets II and I of the Secondary Series in Arc Spectra of Aluminum and Indium
Orig Pub : Acta phys. polon., 1958, 17, No 6, 455-461

Abstract : The ratios of the intensities of the components of eight doublets I and II of the secondary series were measured in spectra of Al I and In I. Deviations from the sum rule in doublets depend on the place of the doublet in the series.

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24,3400

28511

P/047/61/012/002/001/001
D221/D301AUTHOR: Kunisz, Maria Danuta

TITLE: Experimental methods of determining the oscillator strength of spectral lines

PERIODICAL: Postępy fizyki v.12, no.2, 1961, 197-225

TEXT: This article is closely related to work by W. Hanus (Ref.2: Postępy fizyki, 11, 275 (1960) which deals with the theory of the intensity of lines and oscillator strength. The present paper reviews the methods available for determining the oscillator strength of a given line. The oscillator strength f_{ab} of a line ν_{ab} is defined as a number of classical oscillators which would absorb in a given time the radiation energy ν_{ab} equal to that absorbed by an atom in the state E_a . The relation between the probability of spontaneous emission A_{ba} and the strength f_{ab} of corresponding line is given by (Eq.6).

$$A_{ba} = \frac{g_a}{g_b} \frac{8\pi^2 \nu_{ba}^2 e^2}{mc^3} f_{ab}.$$

Intensity I_{ba} of a line emitted by a

(6)

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thin layer of luminous gas containing N_b atoms excited to E_b per $1/cm^3$ is
(eq.7).

$$I_{ba} = N_b A_{ba} h v_{ba} = N_b \frac{g_a}{g_b} \frac{8\pi^2 h v_{ba}^3 e^2}{mc^3} f_{ab}. \quad (7)$$

The average life time T_b of the atom excited to E_b is (eq. 8) where

$$T_b = \frac{1}{\sum_a A_{ba}} \quad (8)$$

summation extends over all levels below E_b . When E_a is the lowest level and v_{ao} is the resonance line, (Eq.9)

$$T_a = \frac{1}{A_{ao}} \quad (9)$$

and the oscillator strength of the resonance line is (eq.10)

$$f_{ao} = \frac{mc^3}{8\pi^2 \sigma^2 v_{ao}^2 g_a} \frac{1}{g_0 T_a} \quad (10)$$

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The methods reviewed are: 1) Measurement of anomalous dispersion near the absorption line, 2) Measurement of angular rotation of plane polarized light near the absorption line, the medium being in the external magnetic field, (Faraday's effect); 3) Determination of absorption of radiation; 4) Determination of spectral line width. In Method 1, the simplified formula (eq,12) is used, where w_{ab} = frequency of the oscillator $2\pi N_{ab}$;

$$\Delta(n-1) = - \frac{\pi e^2 N_a f_{ab}}{m \omega_{ab}} \frac{1}{\omega - \omega_{ab}} = \frac{e^2}{4\pi m c^2} \frac{\lambda_{ab}^3}{\lambda - \lambda_{ab}} N_a f_{ab}. \quad (12)$$

N_a = population of the lower level of a given absorption line,

f_{ab} = oscillator strength of the same line, giving the refractive index as a function of $N_a f_{ab}$. The method of crossed prisms is taken from R. W. Wood (Ref. 6: "Physical Optics" The Macmillan Company New York (1934)). A more accurate method is that described by D. Roszdestwenski (Ref.10: Phys. (Leipzig) 39, 307 (1912)) and by Y.I. Ustrovskiy and N.P. Penkin, (Ref.11: Optika i Spektroskopiya, 3, 193, (1957)). The latter use four mirrors A. A₁ B. B₁ in place of two blocks to obtain better beam separation.

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Fig. 5 (cf.) A modification of the above method by D. Roszdestwenski is also described, consisting of the introduction of a compensating plate into the beam (Ref.10, Op. cit) and S.A. Korff and G. Breit, (Ref.5: Rev. mod. Phys., 4, 471 (1932)). Michelson's interferometer can be used in two ways. In the first, it is adjusted for fringes of equal thickness, while in the second the interference occurs in the plane-parallel layer. In method II, the angle of rotation is given by (eq.25) where λ length of optical path

$$\chi = \frac{N_a f_{ab} e^3 l H}{8\pi m^2 c^4} \cdot \frac{\lambda^2 \lambda_{ab}^2}{(\lambda - \lambda_{ab})^2} \sum g_i I_i \quad (25)$$

in the absorbent, N_a - population of the level E in the absorbent, g_i - Lande's coefficient for the i^{th} circularly polarized Zeeman's component for a given absorption line, I_i - ratio of intensity of the i^{th} Zeeman component circularly polarized to the sum of intensities of all the circularly polarized components. Three experimental methods are then described:
 a) Method of crossed nicols; b) Method using a double quartz wedge; c)
 Method using a Savart's plate. Method III consists of the determination

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of total absorption (Ref.17: G. Boldt, Z.Phys. 150, 205 (1958)) or the so-called equivalent width of absorption line (Ref.18: H.Kopfermann, G. Wessel, Z. Phys., 130 100 (1951)). In the total absorption method the relation used is (eq.29)

$$\int \ln \frac{I_{vo}}{I_{vl}} dv = \frac{\pi e^2}{mc} N_a f_{ab} l \quad (29)$$

where I_{vo} = intensity of incident radiation and I_{vl} is given by (eq.28), ✓

$$I_{vl} = I_{vo} e^{-kvl} \quad (28)$$

or for narrow lines (eq.30).

$$\int \ln \frac{I_{\lambda o}}{I_{\lambda l}} d\lambda = \frac{\pi e^2}{mc^2} \lambda^2 N_a f_{ab} l. \quad (30)$$

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(Eq.29) or (30) facilitate determination of the product $N_a f_{ab}$.

Determination of the absolute value of oscillator strength requires knowledge of concentration of atoms excited to the lower level of a given line. For thermal excitation, the Boltzmann equation can be used: (eq.31).

$$N_a = N_0 \frac{g_a - g_0}{g_0} e^{-\frac{E_a - E_0}{kT}} \quad (31)$$

In the equivalent width method, either equation (32) or (34) is used and the

$$W_v = \int \frac{I_{v0} - I_{v1}}{I_{v0}} dv = \frac{\gamma \ell e^2}{mc} N_a f_{ab} l \quad (32)$$

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$$W\lambda = \frac{\pi e^2 \lambda^2}{mc^2} N_{\text{afabl}} \quad (34)$$

LHS integral is determined graphically as shown in Fig. 21. In method IV the following references are quoted (Ref. 21: R.D. Cowan, D.H. Dieke, Rev. mod Phys. 20, 418 (1948)) (Ref. 22: I.M. Nagibina, Izv. Akad. Nauk SSSR 22, 681 (1958)), (Ref. 23: I.V. Dvornikova, Izv. Akad. Nauk SSSR, 22, 677 (1958)), (Ref. 24: V.K. Prokofev, I.M. Nagibina, G.P. Petrova, Opt. i Spektr. 8, 376 (1960)), (Ref. 25: V.S. Fursov, M.N. Oganov, A.R. Striganov, Dok. Akad. Nauk SSSR, 101, 453 (1955)), (Ref. 26: L.M. Biberman, Opt. i Spektr. 3, 397 (1957)). From Ref. (21) it is known that the line width due to absorption at the source depends on the degree of absorption. Parameter p (measure of absorption) for the given line is

$$P_{ba} = \frac{1e^2}{2 mc} \frac{1}{\delta_0} f_{abNa} \quad (33)$$

where l = thickness of emitting (and absorbing) layer at the source.
 δ_0 = line width for the infinitesimally thin emission layer. The relation between δ/δ_0 and p is given in Fig. 22 by Ref. 23 (Op. cit)

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where the curves are given for various n , where n = parameter of homogeneity of the light source, $n = 1$ corresponds to a homogeneous source, while $n = \infty$ corresponds to the light source, in which emitting atoms are spatially separated from the absorbing atoms. By Eq. (33) measurements of line width will give the relative values of oscillator strength of component multiplets with a common lower level E_a ; in this case Eq. (34). The absolute values of oscillator strength f_x can be found by comparison with known values f_{ab} for certain atoms, provided that both emitters have similar lower level energies, similar ionization potentials and that their concentrations are proportional in both solid and gaseous phase. In this case we have

$$\frac{f_x}{f_{ab}} = \frac{p_x}{p_{ba}} \frac{\delta_0^x}{\delta_0^{ba}} \frac{N_{ba}}{N_x} \quad (35)$$

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A different method again is applicable in the case of the resonance lines. Formula (eq. 36) gives the width of resonance level and shows that it is

$$\frac{3}{76} \frac{f_{oa} e^2 N}{mc\nu_0} \quad (36)$$

proportional to the gas density and dependent on the oscillator strength. Differentiation w.r.t. gas density of the experimentally obtained relation of width of the resonance line on gas density, gives the oscillator strength. A similar method is given in (Ref.26: Op.cit.) where the oscillator strength is given below, where $N_a l$ = number of absorbing atoms, and l = length of the

$$f_{ab} = 6,7 \cdot 10^{12} \frac{d\sigma_{ba}}{dN_a l}$$

ray path. Apart from the above methods, the method most commonly used is that of determining corresponding probabilities of transistion (Eq.7) by

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direct measurement of intensity of emitted lines. The methods described above are not equivalent and the comparison table follows:

Metoda	Czulosć na słabe linie	Dokładność 13		Zakres stosowalności
		Pomiarы 14 względne	Pomiarы 15 bez względne	
Dysperzji anomalnej 1	mała 8	1%—2%	2%—4%	Dla linii pochodzących z przejść na niskie, bądź na podstawowy poziom energetyczny w atomie, ze względu na trudności związane z podwyższeniem temperatury absorbenta
Magneto-rotacji 3	bardzo mała 9	3%	4%—6%	
Absorpcyjna 4	bardzo mała 10	10%	kilkanaście do 20%	
Pomiaru szerokości linii 5	stosunkowo duża 11	2%—5%	około 8% 18	Dla wszelkich linii emisyjnych 21
Pomiaru natężenia emisyjnych linii widm. 6	bardzo duża 12	dla linii z tego samego poziomu wyjściowego 3%—6% 19	do 10% 22	Dla wszelkich linii emisyjnych 21

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Legend to table: 1 Method; 2 Anomalous dispersion; 3 Magnetorotation
4 Absorption; 5 Line width measurements; 6 Intensity of emission lines;
7 Sensitivity towards weak lines; 8 low; 9 v. low; 10 v.low; 11 relatively
high; 12 v. high; 13 Accuracy; 14 Relative; 15 Absolute; 16 Applicability;
17 to; 18 about; 19 for lines of the same initial level; 20 for lines
resulting from jumps to low or ground energy state because of the difficulties
occurring in raising the temp. of the absorbent; 21 for all emission lines;
22 up to. There are 22 figures, 1 table and 26 references: 7 Soviet-bloc
and 19 non-Soviet-bloc. The references to the four most recent English-
language publications read as follows: Ref. 1: H. Van Regemorter, J. Phys.
Radium 20, 907 (1959); Ref. 17: G. Boldt, Z. Phys. 150, 205 (1958); Ref. 18:
H. Kopermann, G. Wessel, Z. Phys. 130, 100 (1951); Ref. 20: F. B.
Estabrook, Astrophys. Journal 113, 684 (1951).

ASSOCIATION: Instytut fizyki uniwersytetu Jagiellońskiego, Kraków.
Institute of Physics, Jagielloński University, Cracow.

Card 11/13

P/047/62/013/001/001
D256/D301

9.95/1

AUTHORS: Kunisz, Maria, Danuta and Szynarowska, Maria

TITLE: Some problems of transition probabilities in atoms
and strengths of spectral line oscillators

PERIODICAL: Postępy fizyki, v. 13, no. 1, 1962, 41 - 101

TEXT: An extensive review article on atomic spectroscopy concerning investigations of the transition probabilities in atoms by measuring the strengths of spectral line oscillators and the intensity ratios in spectral lines. The experimental data are systematically tabulated and, where available, a comparison with the theoretical and the semi-empirical rule predictions is given, including a discussion of the implications borne out by some of the observed discrepancies. A full bibliography comprising more than 450 positions is presented for elements of the further columns of the periodic table. There are 5 figures and 11 tables, and 15 references. The most important references to the English-language publications read as follows: L. Aller, Handbook of Physics, 7, 48, 1958, McGraw Hill; B

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Some problems of transitions ...

P/047/62/013/001/001
D256/D301

H.v. Regemorter. J. Phys. Radium, 20, 907, 1959.

ASSOCIATION: Instytut fizyki uniwersytetu Jagiellońskiego, Kraków
(Institute of Physics, Jagiellonian University,
Cracow)

Card 2/2

KUNISZ, Maria Danuta

Some remarks on the applicability of Coulomb's approximation to the calculus of probabilities of transition in the atoms and forces of the oscillator of spectral rays. Acta physica Pol 22 no.1:99-123 Jl '62.

1. Institut de Physique de l'Universite Jagellonienne, Krakow.

KUNISZ, Maria Danuta

"Technical dexterities in physical research" by V. Angerer-Ebert,
Reviewed by Maria Danuta Kunisz. Acta physica Pol 22 no.1:133-134
J1 '62.

KUNISZ, Maria Danuta

"Handbook of thermophysical properties of solid materials" by Alexander Goldsmith, Thomas E. Waterman, Harry J. Hirschhorn. Vol. 1: "Elements (melting temperature above 1000°F)". Reviewed by Maria Danuta Kunisz. Acta physica Pol 22 no.1:134 Jl '62.

KUNISZ, Maria Danuta

"Handbook of thermophysical properties of solid materials"
by Alexander Goldsmith, Thomas E. Waterman, Harry J. Hirschhorn.
Vol.3. Reviewed by Maria Danuta Kunisz. Acta physica Pol 24
no.3:447-448 S'63.

KUNISZ, Maria Danuta

"Experimental crystal physics" by W. A. Wooster. Reviewed
by Maria Danuta Kunisz. Postepy fizyki 14 no. 3: 382
'63.

KONICE, S.

Quick method for quantitative determination of the B_2O_3 content in glass. p. 113.
SZKŁO I CERAMIKA, Warszawa, Vol. 6, no. 6, June 1955.

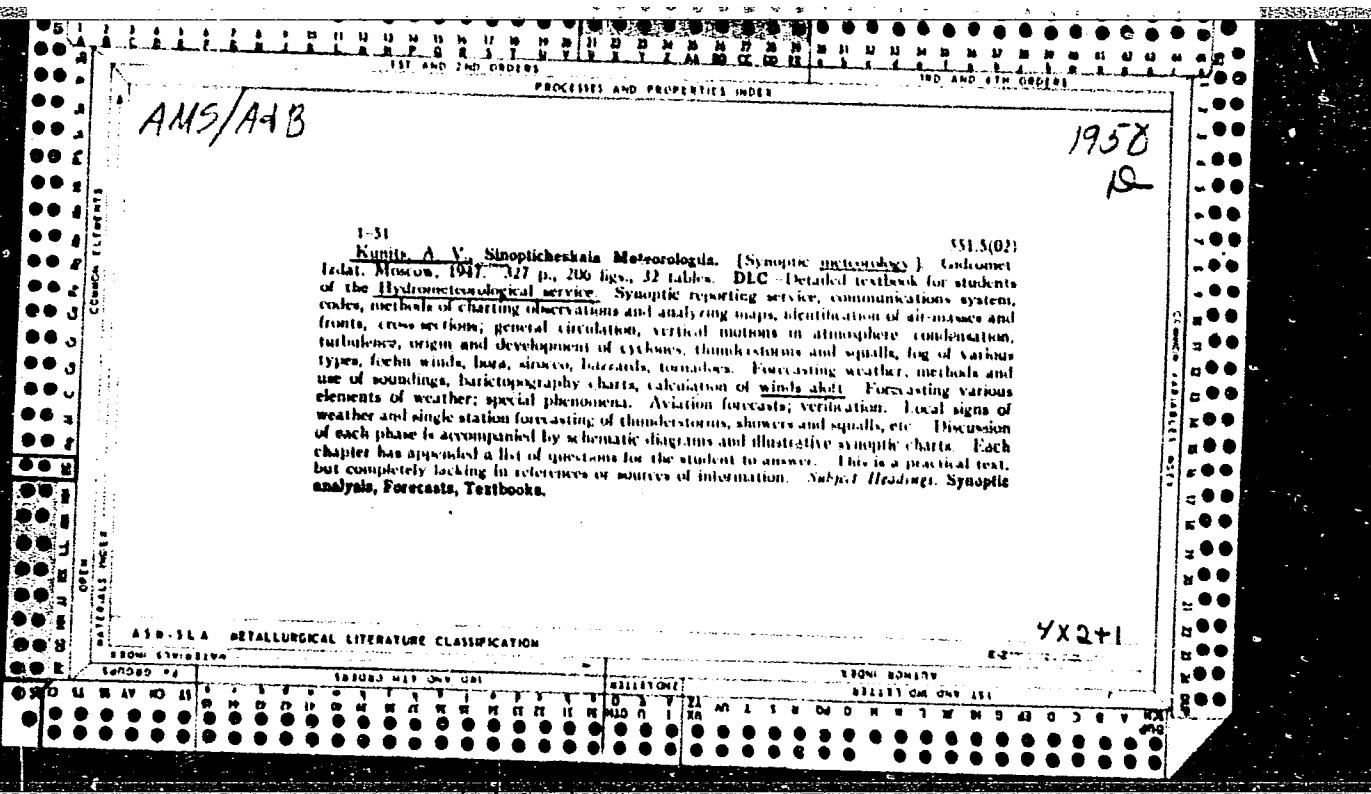
SO: Monthly List of East European Acquisitions, (SVAL), LC, Vol. n, no. 10, Oct. 1955,
Incl.

PEREBAKOVA, M.A., kand.med.nauk; KUNITINA, Z.P.

Indices on the decrease of mortality from tuberculosis in Sverdlovsk, Perm and Ufa. Probl.tub. no.4(12)-15 '61. (MIRA 14:12)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. .. prof. I.A. Shnakein, zam. dir. po nauchnoy chasti - kand.med.nauk N.G. Butkin). 2. Glavnyy vrach Sverdlovskogo gorodskogo protivotuberkuleznogo dispansera (for Kunitsina).

(UR. J. MOUNTAIN REGION--TUBERCULOSIS--STATISTICS)



KUNITS, A.

Atmospheric pressure

Some elementary problems of barometric topography. Met. i gidrol. No. 3, 1949

Monthly List of Russian Accessions.

KUNITS, A. V.

PA 156T72

USSR/Meteorology - Currents, Air

Atmosphere, Temperature

Jan/Feb 50

"Influence of Advection in the Free Atmosphere Upon
Temperature Stratification of Air Masses," A. V.
Kunits, Moscow Hydrometeorol Tech School, 6 pp

"Iz Ak Nauk SSSR, Ser Geograf i Geofiz" Vol XIV,
No 1

p. 82-88

Establishes that, contrary to S. Petterssen's assertion in "Weather Analysis and Forecasting," 1940, advection does not cause any substantial local or individual changes of temperature stratification of an air mass when horizontal temperature gradient is constant with respect to height and movement of air

156T74

USSR/Meteorology - Currents, Air
(Contd) Jan/Feb 50

is geostrophic. When numerical value of horizontal temperature gradient changes with height, only local changes of temperature stratification should be observed, individual changes being observed when direction changes. Kunits has been aware of this error in Petterssen's book since 1943, but felt that it did not need refutation in view of simplicity of problem. He changed his mind when he found Pettersen's treatment of the problem unchanged in new book by S. P. Khromov, "Principles of Synoptic Meteorology," Gidrometeoizdat, Leningrad, 1948. Submitted by Acad. O. Yu. Shmidt 15 Feb 49.

156T74

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4

KOLOBKOV, N.V.; KUNITS, A., redaktor; CHISTYAKOV, A., tekhnicheskiy
redaktor [Air ocean] Vozdushnyi okean. Moskva, Izd-vo DOSARM, 1951. 37 p.
(Atmosphere) (MLRA 10:6)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4"

KUNITS,A.V.

"Advective-dynamic analysis of synoptic processes." Meteor.
i gidrol. no.1:71-72 Ja '52.
(MLRA 8:9)

1. Moskovskiy gidrometeorologicheskiy tekhnikum,
(Meteorology) (Pogosian, Kh.P.) (Taborovskii, N.L.)

KUNITS,A.V.

Concerning V. I. Bushuk's article "Forecast of the direction of movement of cyclones depending on the structure of the thermobaric field." Article reviewed by A.V. Kunits. Meteor.i gidrol. no.10:61-62 N-D '53.

(Cyclones)

(MLRA 8:9)

KOLOBKOV, N.V.; KUNITS, A., redaktor; IVANOV, S., redaktor; ZHURAVLEV, A.,
tekhnicheskij redaktor

[Aerometeorological observations] Aviameteorologicheskie na-
bliudenija. Moskva, Izd-vo DOSAAF, 1954. 175 p. (MIRA 9:3)
(Meteorology in aeronautics)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4

KUNITS, A.V.

Quantitative characteristics of cyclonic activity. Meteor. i
gidrol. no. 6:29-30 Je '56.
(Cyclones) (MIRA 9:9)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4"

TOIMAKOV, A.T.; KIRATENKO, N.G.; BONDARENKO, Ya.I.; DAGAYEVA, T.K.; RYBIN, N.N.;
KOZHURINA, M.S.; LUNITSA, A.N.; ZHUFANSKIY, Ya.I.; PUTKOVSKY, V.A.

In memory of Boris Nikolayevich Vistnevskiy, 1893-1945. Izv. Vses.
geog. ob-va 9/ no.4:390-391 Jl-Ag '65.

(MIRA 18:3)

MARTINEVSKIY, I.L.; KUNITSA, G.M.; KUNITSA, N.K.

Experimental study of sensitivity to tularemia and some characteristics
of the course of this infection in Rhombomys opimus. Zhur.mikrobiol.,
epid. i immun. 32 no.10:91-96 O '61. (MIRA 14:10)

1. Iz Sredneaziatskogo nauchno-issledovatel'skogo protivochumnogo
instituta Ministerstva zdravookhraneniya SSSR.
(TULAREMIA) (GERBILS)

CHISTYAKOV, A.D.; KUNITSA, I.S.; PETROV, I.F., red.; DEYEV, P.G.,
tekhn. red.

[Omsk Province; facts and figures] Omskaia oblast'; tsifry
i fakty. Omsk, Omskoe knizhnoe izd-vo, 1962. 220 p.
(MIRA 16:12)
(Omsk Province—Economic conditions)

KUNITSA

KUNITSA, L.K. (Kiev, ul. M.Gor'kogo, d.3, kv. 16)

Some new data on the morphology of cellular elements of lung
cancer detected in sputum [with summary in English]. Vop.onk. 3
no.4:442-446 '57. (MIRA 10:11)

1. Iz patomorfologicheskoy laboratorii (zav. - T.S.Shvedkova-
Roshe) Kiyevskogo rentgeno-radiologicheskogo i onkologicheskogo
instituta (dir. - prof. I.T.Shevchenko)

(LUNG NEOPLASMS, diagnosis,
sputum histol. exam. (Rus))

(SPUTUM, in various diseases,
cancer of lungs, histol. exam. (Rus))

FUNITSA, I.K., Cand Med Sci -- (diss) "Diagnosis
of cancer of the lung by a cytological study of
sputum." Kiev, 1958, 15 pp (Kiev State Order of Labor
Red Banner Med Inst im Academician A.A. Bogomolets)
200 copies (KL, 23-58, 112)

- 138 -

KUNITSA, L.K., kand.meditinskikh nauk

Practical significance of a cytological analysis of the sputum in
the diagnosis of lung cancer. Vrach. delo no.8-138 Ag '60.

(MIR 13:9)

1. Patomorfologicheskaya laboratoriya Kiyevskogo rentgenoradiologiche-
skogo i onkologicheskogo instituta.
(LUNGS—CANCER) (SPUTUM)

OVOSHCHNIKOV, M.S.; SEMENOVA, A.M.; PASECHNIK, P.I.; BULICH, N.P.; KUNITSA, L.K.

New factors in the methodology of radiotherapy in cancer of the
lungs. Uch. zap, KRROI 7101-120161. (MIRA 16:8)
(LUNES—CANCER) (RADIOTHERAPY)

KUNITSA, N. A.

KUNITSA, N. A. - "Molluscs from Quaternary deposits of the Kiev plateau". Kiev, 1955. Acad Sci Ukrainian SSR, Inst of Geological Sciences. (Dissertation for the Degree of Candidate of Geologicomineralogical Sciences.)

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

KUNITSA, N.A.; RADZIYEVSKIY, V.I.

Characteristics of the geological development of the Goryn River
Valley. Dop.AN URSR no.4:375-379 '56. (MLRA 9'12)

1. Institut geologicheskikh nauk Akademii nauk URSR. Predstavлено
akademikom Akademii nauk USSR V.G. Bondarchukom.
(Goryn Valley--Geology)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4

KUNITSA, N.A.

"Quaternary sediments on the right bank of the middle Dnieper" by
M.F.Veklych. Reviewed by N.A. Kunitsa. Izv. AN SSSR. Ser. geol.
25 №.5:105-107 My '60. (MIRA 13:10)
(Dnieper Valley--Sediments (Geology)) (Veklych, M.F.)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927530001-4"

KUNITSA, Nikolay Andreyevich; FRIDNER, A., red.; MOLCHANOV, T.;
tekhn. red.

[Kiliya; study] Kiliia; ocherk. Odessa, Odesskoe knizhnoe
izd-vo, 1962. 141 p. (MIRA 15:9)
(Kiliya)

KUNITSIA, N.A. [Kunytsia, M.O.]

New data on loess mollusks in the middle Dniester Valley. Dop. AN
URSR no.2:248-252 '64. (MIRA 17:5)

1. Chernovitskiy gosudarstvennyy universitet. Predstavлено akademi.
kom AN UkrSSR V.G.Bondarchukom [Bondarchuk, V.H.].

KUNITSA, N.A.

New data on the alluvium macrofauna of the middle Dniester Valley
and its paleographic significance. Dokl. AN SSSR 160 no.5:1162-
1163 F '65. (MIR 18:2)

1. Chernovitskiy gosudarstvennyy universite . Submitted June 15,
1964.

KURITSA, R.A. [Kanytsia, R.O.]

Bulletin traveitlina of the Dniester Valley and their towns,
Dop. AN UkrSR no.9:1190-1193 '65. (MIRA 1970)

1. Chernovitskly gosudarstvennyy universitet.

VOROVAY, Lev., PHD THUS, N.s.

Erosion processes in the middle Dniester Valley. Vest. Mosk.
univ. Ser. 5: Geog. 20 no.5:18-26 S-0 '65. (MIR 18:12)

I. Geograficheskiy fakul'tet Chernovitskogo Gosudarstvennyy
universiteta. Submitted December 12, 1964.

KUNITSA, N.A.

Age of the Pleistocene terraces of the middle Dniester
Valley according to data of mollusk fauna. Dokl. AN
SSSR 166 no.1:179-181 Ja '66.

(MIRA 19:1)

1. Chernovitskiy gosudarstvennyy universitet. Submitted
July 30, 1965.

KUCHAROV, P.M.; BYKOV, L.T.; KAMPUZIDI, K.S.; MERLIN, V.M.; KUNITSA, N.K.;
KAL'YANOVA, M.L.; PARSHIN, M.I.

Experience with the prevention of tularemia during an extensive epizootic
outbreak in rodents. Zhur. mikrobiol. epid. i immun. 29 no.8:3-7 Ag '58.
(MIRA 11:10)
1. Iz Ural'skoy protivochumnoy stantsii i Rostovskogo protivochumnoy
instituta.

(TULAREMIA, prevention and control,
during extensive epizootic outbreak in rodents (Rus))

MARTINEVSKIY, I.L.; KUNITSA, G.M.; KUNITSA, N.K.

Experimental study of sensitivity to tularemia and some characteristics
of the course of this infection in Rhombomys opimus. Zhur.mikrobiol.,
epid. i immun. 32 no.10:91-96 O '61. (MIHA 14:10)

1. Iz Sredneaziatskogo nauchno-issledovatel'skogo protivochumnogo
instituta Ministerstva zdravookhraneniya SSSR.
(TULAREMIA) (GERBILS)

S/182/62/000/002/001/003
P038/DJ12

AUTHORS: Maksimov, A.I., Kunitsa, N.S. and Bryukhanov, A.N.

TITLE: On the effect of the rate of change of the deformation resistance
on the accuracy of cold flat sizing

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 2, 1962, 5-8

TEXT: The authors examined the effect of the sizing allowance, contact friction and strength properties of the forging material on the accuracy of cold flat sizing, as these factors had not been sufficiently studied. Sizing must guarantee a certain standard of surface finish and dimensional accuracy before it can replace cutting operations. It was found that: (1) the achieved sizing accuracy in dies without stops depends on the rate of change of the deformation resistance; the lower this rate is, the more accurate the sizing is. Increasing the sizing allowance increases the sizing accuracy, which explains why lubricants permitted reducing the deformation effort and increasing the accuracy of flat sizing; (2) the harder the metal, the less the accuracy of flat sizing; for higher accuracy, the forgings ought to be sized after annealing or normalizing. The above research was done in 1961 by the kafedra obrabotki metallov VEMI (Department of Metal Work-

Card 1/2

S/182/62/000/002/001/006
D038/D112

On the effect of the rate

ing of the VZMI); the experimental work was done on a 1000-ton-capacity embossing press at the forge shop of the Vladimirskiy traktornyy zavod (Vladimir Tractor Plant) by A.I. Maksimov and V.N. Kulikovskiy. The laboratoriya mekhanicheskikh ispytaniy Avtozavoda im. Likhacheva (Laboratory of Mechanical Tests of the Automobile Plant im. Likhachev) calibrated the specimens used for determining the flexible characteristics of the die-press system on a 100-ton capacity testing press. A.I. Maksimov and M.G. Parun-Sarkisov are mentioned. There are 3 figures, 3 tables and 5 Soviet-bloc references.

Card 2/2

MAKSIMOV, A.I.; KUNITSAN, N.S.; BRYUKHANOV, A.N.

Investigating and setting up the process of cold level sizing
with limiting devices. Kuz.-shtam. proizv. 4 no.9:1-6 S
'62. (MIRA 15:9)
(Forging)

MANSUROV, Aleksandr Matveyevich; KUNITSA, S.S., inzh., retsenzent;
REBEL'SKIY, A.V., kand.tekhn.nauk, red.; CHERNYAK, O.V.,
red.izd-va; POPOVA, S.M., tekhn.red.; GORDIYEVA, L.P., tekhn.
red.

[Drop forging operations] Tekhnologiya goriachei shtampovki.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.
324 p. (MIRA 13:5)

(Forging)

MASSEN, V.A.; MIOSLAVSKIY, I.L.; PAVLOV, S.P.; FOGODILOV, M.N.; SHEVELEV,
A.Ye.; KUNITSA, S.S.; YAKOVLEV, V.G.; CHESNOKOV, V.K.; KRYLOV,
B.F.; SHIKHANOVICH, B.A.; YAITSKOV, S.A.

Proposals awarded prizes at the 16th All-Union Contest for
Electric Power Economies. Prom.energ. 17 no.10:12-14 0
'62. (MIRA 15:9)
(Technological innovations--Competitions)

POPOV'YAN, I.M., professor; KUNITSINA, T.A., kandidat meditsinskikh nauk

Prevention of postoperative vomiting and regurgitation following
gastric resection. Sov.med. 20 no.5:61-66 My '56. (MIRA 9:9)

1. Iz fakul'tetskoy khirurgicheskoy kliniki imeni Mirotvortseva
Saratovskogo meditsinskogo instituta.

(STOMACH, surgery,
postop. vomiting & regurgitation, prev. (Rus))
(VOMITING,
postop., prev. (Rus))

KUNITSINA, T. A.; MIGAL', L. A.

Significance of thoracotomy in the diagnosis and treatment of
pulmonary and extrapulmonary surgical diseases. Grud. khir. no.5:
75-81 '61. (MIRA 15:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki lechebnogo fakul'teta
(dir. - prof. I. M. Popov'yan) Saratovskogo meditsinskogo instituta
(dir. - dotsent N. R. Ivanov)

(LUNGS--DISEASES) (CHEST--SURGERY)

KSANTOPULO, Ya.F.; KOTLYARSKIY, D.I.; IGNATOV, V.A.; ALKINA, E.Kh.; inzh.;
SMIRNOV, Yu.A.; inzh.; KUNITSINA, T.I., inzh.; IGNATOVA, N.T., inzh;
KIRSANOV, A.I., elektromekhanik; MOLODTSOV, N.A., inzh.; ROD'KO, G.V.

Discussion of two articles "Stamping apparatus for signaling, central control and block systems." and "Periods for testing relays used in signaling, central control and block systems." Avtom., telem. i sviaz'
no.12:35-36 D '57. (MIRA 10:12)

1.Nachal'nik Adzhikabul'skoy distantsii signalizatsii i svyazi Azerbaydzhanskoy dorogi (for Ksantopulo). 2.Starshiy elektromekhanik Moskovskoy distantsii signalizatsii i svyazi Oktyabr'skoy dorogi (for Kotlyarskiy). 3.Ayaguzskaya distantsiya signalizatsii i svyazi Turkestano-Sibirskoy dorogi (for Alkina, Smirnov, Kunitsyna, Ignatova). 4.Zaveduyushchiy postom dispatcherskoy tsentralizatsii Ayaguzzkoy distantsii signalizatsii i svyazi Turkestano-Sibirskoy dorogi (for Ignatov). 5.Krasnolimanskaya distantsiya signalizatsii i svyazi Donetskoy dorogi (for Kirsanov). 6.Moskovskaya distantsiya signalizatsii i svyazi Gor'kovskoy dorogi (for Molodtsov). 7.Zamestitel' nachal'nika sluzhby signalizatsii i svyazi Orenburgskoy dorogi (for Rod'ko).

(Railroads--Signaling)

GORBOVITSKIY, S.Ye.; PEREBATOVA, M.A.; KUNITSINA, Z.P.; ROSSOSHNYKH, G.F.

Results of work in the early detection of tuberculosis in children
in Sverdlovsk and Perm. Sov.zdrav. 18 no.9:21-25 '59. (MIRA 12:11)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta tuberkuleza
(dir. - prof. I.A. Shklein). Sverdlovskogo gorodskogo protivotuberkuleznogo dispansera (glavnnyy vrach Z.P. Kunitsina) i Permskogo gorodskogo protivotuberkuleznogo dispansera (glavnnyy vrach M.V. Tarasova).
(TUBERCULOSIS prev. & control.)

KUNITSKAYA G.M.

✓ Application of infrared spectra to the study of intermediate products in the synthesis of vitamin A and carotene. N.A. Kunitskaya, G.M. Smirnov.

from citral, this can be explained by the fact that

ANISIMOV, K.N.; KUNITSKAYA, G.M.; SLOVOKHOTOVA, N.A.

Unsaturated phosphonic acids. Report No. 22: Addition of phosphorus pentachloride to isopropenylacetylene. Izv. AN SSSR. Otd. khim. nauk no. 1:6/-71 Ja '61. (MIRA 14:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Fizikokhimicheskiiy institut im. L.Ya. Karpova.
(Butenyne) (Phosphorus chloride)

S/062/61/000/001/006/016
B101/B220

AUTHORS: Slovokhotova, N. A., Anisimov, K. N., Kunitskaya, G. M.,
and Kolobova, N. Ye.

TITLE: Infra-red spectra of some derivatives of unsaturated
phosphinic acids

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
no. 1, 1961, 71-76

TEXT: The purpose of the present paper was to verify the structural
formulas of various previously (Ref.) synthesized derivatives of unsaturat-
ed phosphinic acids based on their infra-red spectra, as well as to study
the mutual influence of atoms and groups inside their molecules. The
spectra were taken by means of a Hilger D-209 (D-209) infra-red spectro-
meter. A table indicates those absorption bands from which conclusions
were drawn as to the structure of the analyzed substances. In detail, the
following has been found: The chlorine atom bound to the C-atom neigh-
boring the C=C bond (ester II) increases the frequency of stretching
vibrations of the C=C bond. The absorption bands 870-910 cm⁻¹ correspond-

Card 1/5

Infra-red spectra of some derivatives...

S/062/61/000/001/006/016
B101/B220

ing to deformation vibrations of the CH group at the C=C bond confirm the existence of vinyl groups in IV and of vinylidene groups in I, II, III. The shift of these bands in II is also attributed to the neighboring chlorine atom. In relation to IV where the phosphorus group is not conjugated with the C=C group, frequency in V is reduced by 40 cm^{-1} . Since, however, the P=O group, due to its different configuration, cannot be located in the same plane as the C=C group, this effect is attributed to the phosphorus atom. In the esters VII to IX, a similarity with the spectra of pentadiene and isoprene was found in the range

$1640-1585\text{ cm}^{-1}$, which is attributed to the corresponding bands of symmetrical and antisymmetrical vibrations of the conjugate double bonds. The band shift is attributed to the neighboring phosphorus atom. All compounds show intensive bands in the range $1250-1270\text{ cm}^{-1}$; these bands correspond to the P=O bond, and in the case of acid chlorides, they are shifted by 20 cm^{-1} toward higher frequencies, owing to the action of the chlorine atoms. The intensive doublet bands $1060-1000\text{ cm}^{-1}$ are attributed to vibrations of the O-C bond in the P-O-C groups. There are 3 figures, 1 table, and 10 references: 3 Soviet-bloc and 8 non-Soviet-bloc.

Card 2/5

Infra-red spectra of some derivatives...

S/062/61/000/001/006/016
B101/B220

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physicochemical Institute imeni L. Ya. Karpov).
Institut elementoorganicheskikh soyedineniy Akademii nauk
SSSR (Institute of Elemental-organic Compounds, Academy
of Sciences USSR)

SUBMITTED: July 23, 1959

Card 3/5

Infra-red spectra of some derivatives...

S/062/61/000/001/006/016

Card 4/5	1 Вещество	[*] C-C	[*] P-O	C-O в группе P-O-C
3	Диэтаповый эфир (2-метилбутил-2)-4 фосфиновой кислоты $\text{CH}_3-\overset{\text{CH}_3}{\underset{ }{\text{C}}}-\text{CH}_2-\text{CH}_2-\text{PO}(\text{OC}_2\text{H}_5)_2$	1650 с *	1250 о.н	1056—1025 о.н
4	Диэтаповый эфир (3-хлор-2-метилбутен-2)-4 фосфиновой кислоты $\text{CH}_3-\overset{\text{CH}_3}{\underset{ }{\text{C}}}-\text{CHCl}-\text{CH}_2-\text{PO}(\text{OC}_2\text{H}_5)_2$	1600 с	1250 о.н	1060—1020 о.н
5	Хлорангидрид (3-хлор-2-метилбутен-2)-4 фосфиновой кислоты $\text{CH}_3-\overset{\text{CH}_3}{\underset{ }{\text{C}}}-\text{CHCl}-\text{CH}_2-\text{POCl}_2$	1600 с	1260 о.н	
6	Ди- <i>n</i> -пропиловый эфир (3-хлорбутен-2)-4 фосфиновой кислоты $\text{CH}_3-\text{CH}_2-\text{CHCl}-\text{CH}_2-\text{PO}(\text{OC}_2\text{H}_5)_2$	1650 с	1250 о.н	1075—950 о.н
7	Хлорангидрид винилфосфиновой кислоты $\text{CH}_3-\text{CHPOCl}_2$	1605 м	1270 о.н	
8	Диэтаповый эфир винилфосфиновой кислоты $\text{CH}_3-\text{CHPO}(\text{OC}_2\text{H}_5)_2$	1611 с	1250 о.н	1050—1030 о.н
9	Диэтаповый эфир (бутадиен-2,4)-4 фосфиновой кислоты $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{PO}(\text{OC}_2\text{H}_5)_2$	1640 с 1590 н	1250 о.н	1060—1020 о.н
10	Ди- <i>n</i> -пропиловый эфир (бутадиен-2,4)-4 фосфиновой кислоты $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{PO}(\text{OC}_2\text{H}_5)_2$	1640 с 1590 н	1250 о.н	1075—980 о.н
11	Диэтаповый эфир (2-метилбутадиен-2,4)-4 фосфиновой кислоты $\text{CH}_3-\overset{\text{CH}_3}{\underset{ }{\text{C}}}-\text{CH}_2-\text{CH}_2-\text{PO}(\text{OC}_2\text{H}_5)_2$	1630 м 1585 н	1250 о.н	1000—1030 о.н

Infra-red spectra of some derivatives...

S/062/61/000/001/006/016
B101/B220

δ_{CH}	при C-C	$^{31}\text{P}-\text{C}$	$^{31}\text{P}-\text{O}-\text{C}$
883 c		790 Н, 750 Н	
872 c		800 Н, 725 Н	
872 c		800 Н, 740 Н	
		750 c	
		740 Н	
		790 Н, 720 c	
	(980 Н) **		
		790 Н, 740 Н	
		750 c	
		800 Н, 750 c	
		(864) **	

Не обнаружены
из-за наложения
других полос

Legend to the table: 1) substance; 2) within the group; 3) diethyl ester of (2-methyl-butyl-2)-4-phosphinic acid; 4) diethyl ester of (3-chlorine 2-methyl-butene-2)-4-phosphinic acid; 5) chloride of (3-chlorine 2-methyl-butene-2)-4-phosphinic acid; 6) di-n-propyl ester of (3-chlorine-butene-2)-4-phosphinic acid; 7) chloride of vinyl phosphinic acid; 8) diethyl ester of vinyl phosphinic acid; 9) diethyl ester of (butadiene-2,4)-4-phosphinic acid; 10) di-n-propyl ester of (butadiene-2,4)-4-phosphinic acid; 11) diethyl ester of (2-methyl butadiene-2,4)-4-phosphinic acid; vI = very intensive; II = intensive; C = mean intensity; N = low intensity.

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89909

5.3630

2209, 1287, 1153

S/062/61/000/002/005/012
B115/B207

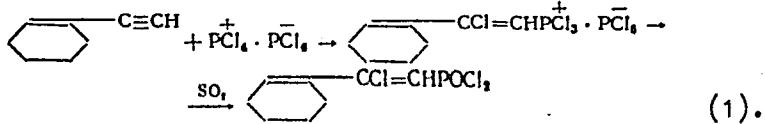
AUTHORS: Anisimov, K. N. and Kunitskaya, G. M.

TITLE: Study of unsaturated phosphonic acids. Report no. 23.
Addition of phosphorus pentachloride to ethynyl
cyclohexene-1

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh
nauk, no. 2, 1961, 274-277

TEXT: In continuation of their studies of unsaturated phosphonic acids,
the authors describe the addition of phosphorus pentachloride to ethynyl
cyclohexene-1:

(1)



(1).

Card 1/5

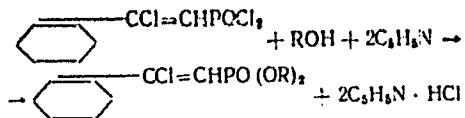
89909

S/062/61/000/002/005/012
B115/B207

Study of unsaturated phosphonic ...

The acid chloride obtained reacts readily with alcohols:

(1)

(2). ~~✓~~

In accordance with this reaction, the authors separated ethyl- and n-propyl esters of β,β' -cyclohexenyl chloro vinyl phosphonic acid (CCVP). The table shows the constants of the compounds obtained. The infrared spectra of the acid chloride and the esters of (CCVP) facilitated the study of the structure of these substances. In the range of the stretching vibrations of the C=C bond, two bands appear in the spectrum of these compounds: 1625, 1620 cm^{-1} and 1570, 1558 cm^{-1} , which confirms the existence of double bonds in the molecules of the conjugate system. The absorption bands 1275, 1260 cm^{-1} are stretching

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Study of unsaturated phosphonic ...

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B115/B207

vibrations of the P=O bond (according to A. Ye. Arbuzov, M. I. Batuyev, and V. S. Vinogradova, Dokl. AN SSSR 54, 603 (1946)). In conclusion, the authors summarize as follows: 1) The acid chloride of (CCVP) was obtained. 2) Diethyl- and di-n-propyl esters of (CCVP) were synthesized. 3) The structure of the substances obtained was studied by means of infrared spectroscopy. There are 2 figures, 1 table, and 6 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the Academy of Sciences USSR)

SUBMITTED: July 23, 1959

Card 3/5

X

25

89909

Study of unsaturated phosphonic ...

S/062/61/000/002/005/012
B115/B207

Формула	T, кип. (р.мм пт. ст.)	n_{D}^{20}		D ₄ кг/л %	IR		δ , C=C см ⁻¹	P=O, см ⁻¹
		n_D^{20}	d_4^{20}		Ч. неп- дено	ваку- умно		
<chem>C=Cc1ccccc1CCl-C(=O)POCl2</chem>								
1. Хлорангидрид- β,β -циклогексенилхлоранилфосфиновой кислоты	132(2)	1,5808	1,4103	54	61,35	58,93	1620 1558 1570	1275 o. c. o.
<chem>C=Cc1ccccc1CCl-CHPO(OC3H6)2</chem>								
2. Диэтапный эфир β,β -циклогексенилхлоранилфосфиновой кислоты	132(1)	1,5142	1,1686	90,5	71,98	70,204	1025 1570 c.	1200 o. c. o.
<chem>C=Cc1ccccc1CCl-CHPO(OC3H7)2</chem>								
3. Ди-и. пропиловый эфир β,β -циклогексенилхлоранилфосфиновой кислоты	131(1)	1,5083	1,1235	56	71,38	79,44	1625 1570 c.	1260 o. c.

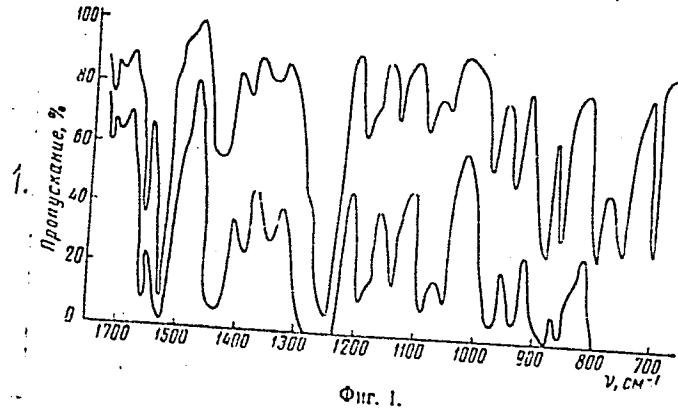
Card 4/5

89909

Study of unsaturated phosphonic ...

S/062/61/000/002/005/012
B115/B207

Legend to the table: 1) Acid chloride of (CCVP), 2) diethyl ester of (CCVP), 3) di-n-propyl ester of (CCVP), 4) boiling point (p mm Hg), 5) yield, 6) found, 7) calculated, 9) medium strong, 10) very intensive, 11) intensive.



Card 5/5

ZAKHARKIN, L.I.; KORNEVA, V.V.; KUNITSKAYA, G.M.

Synthesis of 1, 10-decanedicarboxylic acid from 1, 5, 9-
cyclododecatriene. Izv.AN SSSR.Otd.khim.nauk no.10:1908-1909
0 '61. (MIRA 14:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Dodecanedioic acid)

KUNITSKIY, V.N.; KUNITSKAYA, N.T.

New species of flea, *Ceratophyllus mikulini* sp. nov., from
Transcaucasia. Trudy Nauch.-issl. protivochum. inst. Kav. i
Zakav. no.5:203-205 '61. (MIRA 17:1)

KUNITSKAYA, N.T.

Examination of the reproductive organs of female fleas and the
determination of their physiological age. Med.paraz.i paraz.
bol. 29 no.6:688-701 '60. (MIRA 14:2)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza
i Zavkavkaza v Stavropole Ministerstva zdravookhraneniya SSSR.
(FLEAS) (GENERATIVE ORGANS, FEMALE)

DIKENSSTEYN, G.Kh.; KUTUZOVA, V.V.; MASHRYKOV, K.K.; BABAYEV, A.G.;
POL'STER, L.A.; YUFEREV, R.F.; SHISHOVA, A.I.; BAREYEV,
R.A.; MAKAROVA, L.N.; MURADOV, K.; IYANOVSKAYA, I.A.;
SEMOV, V.N.; SIROTINA, Ye.A.; TURKINA, I.S.; FEL'DMAN,
S.L.; KHON, A.V.; KUNITSKAYA, T.N.; GOLENKOVA, N.P.;
ROSHINA, V.M.; FARTUKOV, M.M.; SHCHUTSKAYA, Ye.K.;
ALTAYEVA, N.V.; BYKADOROV, V.A.; KOTOVA, M.S.; SMIRNOV,
L.M.; IERAGIMOV, M.S.; KRAVCHENKO, M.F.; MARKOVA, L.P.;
ROZZYEVA, T.R.; UZAKOV, O.; SLAVIN, P.S.; NIKITINA, Ye.A.;
MILOGRADOOVA, M.V.; BARTASHEVICH, O.V.; STAROBINETS, I.S.;
KARIMOV, A.K.

[Splicing of the wires of overhead power transmission lines]
Soedinenie provodov vozдушных линий электропередачи. Mo-
skva, Energiia, 1964. 69 p. (Biblioteka elektromontera,
no.132) (MIRA 17:9)

CONFIDENTIAL

Major and several changes in the nature of the building work
of the residence of the Foreign Min. were made in
1950-1951 (see p. 6)

1. New entrance (central) kiev (presently - 11th floor) was built
in October 1950 (initially it did not have a roof). It consists
of 2 stories (basement), Kievropol'.

KUNITSKAYA, YE. S.

KUNITSKAYA, YE. S.- "Method of Conducting Practical Studies and Organization of Independent Work on Differential Calculus on the Part of Correspondence Students of Pedagogical Institutes." Moscow State Pedagogical Inst imeni V. I. Lenin, Moscow, 1955 (Dissertations for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

KUNITSKAYA, Ye.S.; NEMTSOVA, L.G., red.; VOLCHEK, V.L., tekhn.red.

[Elementary functions; practical manual for students taking courses 1-3 in correspondence schools] Elementarnye funktsii; metodicheskoe posobie dlia studentov-zaochnikov I-III kursov. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1958. 63 p. (MIRA 12:4)

(Functions)

KUNITSKIY,A., inzhener; ZAKHARCHUK,O., inzhener; ORZHEROWSKIY,M.,
~~inzhener~~

Cleaning by machine of oil tanks on ships. Mor. flot 15 no.6:
11-12 Je '55. (MIRA 8:8)
(Ships--Maintenance and repair)

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